



**CABY Integrated Regional Water Management Group  
Proposition 84 2015 IRWM Round 3 Grant Solicitation**

**Attachment 5: Schedule**

Attached please find:

- Proposal Schedule
- Schedules for each project included in Proposal including Administration Project
- Schedule Summaries for each project included in Proposal including Administration Project

**PROPOSAL TITLE: CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM**  
**ATTACHMENT 5: PROPOSAL SCHEDULE**

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CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM  
ATTACHMENT 5: SCHEDULE  
Project 1: Project Administration  
Project Proponent: The Sierra Fund

				Q-4			Q-1			Q-2			Q-3			Q-4			Q-1			Q-2			Q-3			Q-4			Q-1			Q-2			Q-3		
Task #	Tasks	Start	End	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18			
a)	Direct Project Administration																																						
1	Agreement Administration	12/1/15	8/30/18																																				
2	Invoicing	12/1/15	8/30/18																																				
3	Progress Reports and Completion Reports	12/1/15	8/30/18																																				

MILESTONES	Completion Date
Contract with DWR complete	4/1/16
Contracts with Project Proponents	5/1/16
Quarterly reporting and invoicing begins	6/30/16
Final Reporting and Project Completion	8/31/18

<b>CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM</b>	
<b>ATTACHMENT 5: SCHEDULE SUMMARY</b>	
<b>Project 1: Project Administration</b>	
<b>Implementing Agency: The Sierra Fund</b>	
<b>Category a) Direct Project Administration</b>	
<b>Task 1 Administration</b>	<b>12/15 – 8/18</b>
Administration will start as soon as grant is awarded and continue through the life of the project with time to submit all final paperwork once Project Proponents finish their projects. Assumes 21 months of administering the grant from date of award in December 2015 to August 2018, which is approximately 6 months after final project completion in order to allow for all final reporting to be completed.	
<b>Task 2 Invoicing</b>	<b>12/15 – 8/18</b>
Procedures and financial systems will start being developed as soon as the grant award is announced. Invoicing will begin at the end of the first quarter after contracts are completed with DWR and Project Proponents and continue throughout the life of the project. Assumes 7 quarters of invoicing starting the 2 <sup>nd</sup> quarter of 2016.	
<b>Task 3 Progress Reports &amp; Completion Reports</b>	<b>12/15 – 8/18</b>
Reporting procedures will start being set up as soon as the grant award is announced. Preparation of required reports will begin during the first quarter after contracts are completed with DWR and Project Proponents. Reporting task will continue throughout the life of the project as well as for 6 months after the final project has been completed in order to prepare Draft and Final Completion reports. Assumes 7 quarters of reporting starting the 2 <sup>nd</sup> quarter of 2016 plus Completion Reports for both projects and the Application.	

# CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM

## ATTACHMENT 5: SCHEDULE

### Project 2: Meade Canal DAC Project

Project Proponent: Nevada Irrigation District

Task #	Tasks	Start	End	Q-2	Q-3		Q-4			Q-1		Q-2		Q-3		Q-4				
				Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
a)	Direct Project Administration																			
1	Project Management	6/1/15	12/31/16																	
2	Labor Compliance	12/1/15	7/31/16																	
3	Reporting	12/1/15	12/31/16																	
b)	Land Purchase/Easement																			
4	Land Easement/Acquisition	12/1/15	1/31/16																	
c)	Planning/Design/Engineering/Environmental Documentation																			
5	Feasibility Studies	N/A	N/A																	
6	CEQA documentation	12/1/15	2/1/16																	
7	Permitting	12/1/15	2/1/16																	
8	Design	12/1/15	2/28/16																	
9	Project Performance Monitoring Plan	3/1/16	3/31/16																	
d)	Construction/Implementation																			
10	Contract Services	2/1/16	4/30/16																	
11	Construction Administration	3/1/16	9/31/2016																	
12a	Mobilization and Demobilization	4/1/16	7/31/16																	
12b	Site Preparation	4/1/16	5/31/16																	
12c	Canal Encasement Construction	5/1/16	6/30/16																	
12d	Improve / Cleanup	7/1/16	7/31/16																	

MILESTONES		Date
Easement Acquisitions complete		1/31/16
Planning and Engineering complete		3/31/16
Construction Task Starts		2/1/16
Materials Purchased		4/30/16
Construction Task Complete		8/31/16
Final Report		12/31/16

<b>CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM</b>	
<b>ATTACHMENT 5: SCHEDULE SUMMARY</b>	
<b>Project 2: Meade Canal DAC Project</b>	
<b>Implementing Agency: Nevada Irrigation District</b>	
<p><b>Project Schedule Description:</b> The project as described in the Work Plan (Attachment 3) and shown in the attached project schedule will be completed over a 13-month period from June 2015 to December 2016. This schedule is reasonable and accomplishable based on NID's previous experience with piping similar canals. NID does not foresee any environmental or stakeholder constraints that would impact the proposed schedule. Because Smartsville is an economically disadvantaged community, completing the project on the schedule provided is contingent on the award of grant funding from DWR through the Prop 84 IRWM Implementation Program. The following is a description of key features of this project schedule:</p>	
<b>Category a) Direct Project Administration</b>	
<b>Task 1 Administration</b>	<b>6/15 – 12/16</b>
This task includes Grant Application Preparation and Coordination, which started in June 2015 and will be completed by the application deadline of August 7, 2015. Non-construction administration will begin in December 2015 and will continue throughout the Project as well as for four months after to allow time for preparation of the final report.	
<b>Task 2 Labor Compliance Program</b>	<b>12/15 - 7/16</b>
NID will take all measures necessary to ensure compliance throughout all phases of the project.	
<b>Task 3 Reporting</b>	<b>12/15 - 12/16</b>
Preparation of required reports and reporting systems will begin upon verification of grant funding and continue throughout the life of the project as well as for four months after construction to allow time for preparation of a draft Project Completion Report and Final Completion Report.	
<b>Category b) Land Purchase/Easement</b>	
<b>Task 4 Land Purchase/Easement</b>	<b>12/15 – 1/16</b>
Any necessary communication with property owners adjacent to the project will begin in as soon as Project is approved for funding in 12/15. NID anticipates completing any temporary easements by the end of January 2016.	
<b>Category c) Planning/Design/Engineering/Environmental Documentation</b>	
<b>Task 5 Feasibility Studies</b>	<b>N/A</b>
This project is part of NID's rolling program to line all earthen canals in the District. Feasibility Studies are not needed for this particular project.	
<b>Task 6 CEQA Documentation</b>	<b>12/15– 2/16</b>
NID anticipates filing a categorical exemption prior to starting work on the canal. Based on prior experience NID anticipates that this will take a maximum of two months.	
<b>Task 7 Permitting</b>	<b>12/15 - 2/16</b>
As very few permits are likely required for this project and based on NID's experience with similar projects they estimate that they need 2 months to get them all in place before construction starts in April 2016.	
<b>Task 8 Design</b>	<b>12/15 – 2/16</b>
NID's engineering department will need 3 months to complete the design of this project, based on site specific conditions and experience of similar projects recently completed.	
<b>Task 9 Project Performance Monitoring Plan</b>	<b>2/16</b>

NID's Engineering Department will work with the Project Maintenance Superintendent to design a Monitoring Plan that will be in place before all bids are received for materials and before construction begins. Based on previous experience on similar projects, this will need less than a month to complete.

**Category d) Construction/Implementation will begin in February 2016**

**Task 10: Contract Services**

**2/16 – 4/16**

Construction/Implementation will begin in February 2016. All work will be carried out by NID staff so there will be no need for outside bids from contractors for work to be completed. However NID will be issuing a notice for bids for materials needed for the project. NID anticipates that the bid process will take three months from issuance of the notice to award.

**Task 11: Construction Administration**

**3/16 – 9/16**

NID staff including qualified engineer, Maintenance Supervisor and Maintenance Superintendent will provide construction management, oversight and administration throughout construction. Daily inspection will be provided to ensure environmental controls are being followed in accordance with contract documents throughout the months of construction. Administration will continue for one month after canal encasement is complete to ensure that all requirements are complete.

**Task 12:**

**4/16 – 7/16**

- **Sub-Task 12a) Mobilization and Demobilization:** Begins 4/16 and ends after construction is complete in 7/16. It is anticipated that mobilization will take 2 weeks, which will be enough time for mobilizing all equipment and staging areas as well as clearing. Demobilization will take 2 weeks and will occur immediately following approval by NID Engineer that work has been completed per specifications and plan. NID crews will dismantle the staging areas and remove all equipment from the project site.
- **Sub Task 12b) Site Preparation:** Takes place in April 2016 once mobilization has taken place and due to the length of the canal work will take approximately 2 weeks.
- **Sub Task 12c) Canal Encasement Construction:** 5/16 – 6/16: Based on previous projects and engineering estimates we anticipate that major construction tasks listed in Work Summary will take up to two months and will take place in May and June 2016. All materials will be ordered in advance to ensure a smooth start to the project and enough leeway has been given to accommodate all weather conditions.
- **Sub-Task 12d) Improve/Cleanup:** 7/16: Once all construction activity is complete, NID Maintenance Supervisor will work with crews to ensure that all necessary permitted activities are complied with and that all necessary erosion measures are put in place. The length of canal involved in the project will be examined again and cleared of any remaining equipment, materials and debris. NID anticipates that this will take 3 weeks.

**Project Proponent: Placer County Water Agency**

<b>MILESTONES</b>	<b>Completion Date</b>
Project Phasing Plan	31-Oct-16
Award Purchase Contract	1-Nov-15
Complete Installations	1-Apr-17
Draft Project Completion Report	1-Dec-17
Final Project Completion Report	28-Feb-18



<b>CABY DAC WATER SUPPLY AND WATER QUALITY PROGRAM</b>	
<b>ATTACHMENT 5: SCHEDULE SUMMARY</b>	
<b>Project 3: Drought Response Disinfection Byproduct Reduction Project</b>	
<b>Implementing Agency: Placer County Water Agency</b>	
<p><b>Project Schedule Description:</b> The project as described in the Work Plan (Attachment 3) and shown in the attached project schedule will be completed over a 41-month period from September of 2014 to February of 2018. This schedule is reasonable and accomplishable based on PCWA's previous experience with completing the tank mixer and ventilation systems in the Colfax system in 2014. PCWA does not foresee any environmental or stakeholder constraints that would impact the proposed schedule. Because the North Auburn, and Colfax communities are economically disadvantaged communities, completing the project on the schedule provided is contingent on the award of grant funding from DWR through the Prop 84 IRWM Implementation Program. Please see attached project schedule for the duration of each task and sub task planned for PCWA's Drought Response Disinfection Byproduct Reduction project. The following is a description of key features of this project schedule:</p>	
<b>Category a) Direct Project Administration</b>	
<b>Task 1 Project Management</b>	<b>8/14 – 2/18</b>
<p>Non-construction administration began in August 2014 and will continue throughout the Project as well as for four months after to allow time for preparation of the final report.</p> <ul style="list-style-type: none"> <li>Sub-Task 1.01: Grant Application Preparation and Coordination: The Grant Application Coordination started in June 2015 and will be completed by the application deadline of August 7, 2015.</li> <li>Sub-Task 1.02: Grant Agreement Coordination and Project Management: PCWA anticipates coordinating with The Sierra Fund on the CABY grant agreement and conducting project management throughout the duration of the project. General Project Administration began in August 2014 and will continue until the Final Completion Report is submitted in February 2018.</li> </ul>	
<b>Task 2: Labor Compliance Program</b>	<b>8/14 - 10/16</b>
<p>PCWA anticipates that a labor compliance program should be completed in October 2015 for the Channel Hill and Bell Road Tank installations. Any remaining work needed for a Labor Compliance Program will be completed in October 2016, before the final two tank installations.</p>	
<b>Task 3: Reporting</b>	<b>7/16 - 2/18</b>
<ul style="list-style-type: none"> <li>Sub-Task 3.01: Quarterly Progress Reports: Quarterly reporting will begin based on the assumption that funding will be awarded in the fall of 2015 and contracts will be complete by early 2016. Starting with the second quarter of 2016 report, PCWA anticipates completing a total of seven quarterly reports under this grant application.</li> <li>Sub-Task 3.02: Draft Project Completion Report: A Draft Project Completion Report will be started in August 2017 once all seven tank mixer and ventilation systems have been installed and be completed by December 2017.</li> <li>Sub-Task 3.03: Final Project Completion Report: The final Project completion report will be completed once the tank mixer and ventilation systems have been installed in all tanks and all four quarters of verification TTHM testing are completed, which is anticipated to be by the end of January 2018. A final project completion report can be submitted by the end of February 2018.</li> </ul>	
<b>Category b) Land Purchase/Easement</b>	
<b>Task 4 Land Purchase/Easement</b>	<b>N/A</b>
N/A	
<b>Category c) Planning/Design/Engineering/Environmental Documentation</b>	
<b>Task 5 Feasibility Studies</b>	<b>8/1/14 – 12/31/14</b>
<p>Project Feasibility Studies were completed as part of the project development process. No further feasibility studies are necessary.</p>	
<b>Task 6 CEQA Documentation</b>	<b>7/15 – 9/15</b>
<p>CEQA documentation will be complete for all seven tanks in September 2015 PCWA will file a Notice of Exemption for all seven tanks and does not expect this process to take longer than three months. The Notice of Exemptions will be complete before the installation of the tank mixer and ventilation systems in the Auburn/Bowman system.</p>	
<b>Task 7 Permitting</b>	<b>N/A</b>
N/A	
<b>Task 8 Design</b>	<b>10/15 – 9/16</b>

The Design Project Phasing Plan will be completed in October 2015 for the Channel Hill and Bell Road Tank installations. The phasing plan may be adjusted as the installation of the tank mixer and ventilation systems are completed based on operational needs. The phasing plan for the remaining two tanks (Bowman and Electric Street) is expected to be complete in September 2016.

<b>Task 9 Project Performance Monitoring Plan</b>	<b>6/15 – 1/16</b>
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PCWA started to develop a basic Project Performance Monitoring Plan for this grant application in June 2015. The initial Project Performance Monitoring Plan will be completed by the grant application deadline of August 7, 2015 with modifications made by the beginning of 2016. PCWA is currently working on methods for monitoring performance at the tanks that have already had tank mixer and ventilation systems installed at three locations.

**Category d) Construction/Implementation:**

<b>Task 10: Contract Services</b>	<b>10/15</b>
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The purchase contract for the remaining four tanks will be finalized in October 2015 based on PCWA's anticipated schedule of installing the tank mixer and ventilations systems in two of the tanks this fall 2015.

<b>Task 11: Construction Administration</b>	<b>9/14 – 4/17</b>
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PCWA anticipates construction administration support will be needed throughout the duration of the project, primarily during the time of installation of the tank mixer and ventilation systems within the tanks. The construction administration task began in September 2014 when the mixers were installed at the three Colfax tanks and is expected to be completed in March 2017 once all tank mixers have been installed.

<b>Task 12: Construction/Implementation Activities</b>	<b>9/14 – 1/18</b>
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- Sub-Tasks 12.01 through 12.03: Site Prep and Installation - The installation of the mixer and ventilation system within the Colfax Clearwells and Ballpark Tank began in September 2014 and was completed by December 2014. PCWA will perform the initial TTHM performance monitoring tests once the installation is complete.
  - 12.01. Colfax Clearwell (1 MG)
  - 12.02. Ballpark Tank (0.6 MG)
  - 12.03. Colfax Clearwell (0.3 MG)
- Sub-Tasks 12.04 and 12.05: Site Prep and Installation - PCWA anticipates preparation for the installation of the mixer and ventilation system within the Bell Road Tank and Channel Hill Tank to begin in October 2015 and be completed by March of 2016. PCWA anticipates scheduling this installation during the winter months when demand is lower than average. PCWA will perform the initial TTHM performance monitoring tests once the installation is complete.
  - 12.04. Bell Road Tank (1 MG)
  - 12.05. Channel Hill Tank (1 MG)
- Sub-Tasks 12.06 and 12.07: Site Prep and Installation - PCWA anticipates preparation for the installation of the mixer and ventilation system within the Bowman Tank to begin in October 2016 and be completed by April of 2017. PCWA anticipates scheduling this installation during the winter months when demand is lower than average. PCWA will perform the initial TTHM performance monitoring tests once the installation is complete.
  - 12.06. Bowman Tank (10 MG)
  - 12.07. Electric Street Tank (5 MG)
- Sub-Task 12.08: Demobilization – TTHM Testing: The first quarter of performance monitoring will be completed in tasks 12.01 through 12.07. The subsequent three quarters of performance monitoring will be completed by PCWA staff under this demobilization task. The first round of performance testing at the Colfax Tanks will occur during the same time as the testing for Bell Road and Channel Hill, anticipated testing in April 2016. The last three quarters of monitoring at the Colfax system tanks, Bell Road and Channel Hill tanks will begin July 2016. The last three quarters of monitoring at the Bowman and Electric Street tanks will begin July 2017.